

What is claimed is:

1. A guidewire system, comprising:

a first wire comprising a body member and a plurality of struts extending beyond a first end of the body member;

each strut of the first wire including a first portion fixed to the body member of the first wire and a generally enlarged portion fixed to the first portion;

the first portion of the struts of the first wire defining a plurality of apertures;

a second wire having a body member and a plurality of struts extending beyond a second end of the body member;

each strut of the second wire including a first portion fixed to the body member of the second wire and a generally enlarged portion;

the first portion of the struts of the second wire defining a plurality of apertures;

and

wherein each aperture defined by the struts of the second wire is adapted to accept at least a portion of a strut of the first wire.

2. The guidewire system of claim 1, wherein each aperture defined by the struts of the second wire is adapted to accept the generally enlarged portion of a strut of the first wire.

3. The guidewire system of claim 1, wherein each aperture defined by the struts of the first wire is adapted to accept at least a portion of a strut of the second wire.

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4. The guidewire system of claim 1, wherein each aperture defined by the struts of the first wire is adapted to accept the generally enlarged portion of a strut of the second wire.

5. The guidewire system of claim 1, wherein the struts of the first wire comprise a resilient material.

6. The guidewire system of claim 1, wherein the struts of the first wire are adapted to deflect inwardly when urged in an inward direction by an external force.

7. The guidewire system of claim 1, wherein the struts of the second wire comprise a resilient material.

8. The guidewire system of claim 1, wherein the struts of the second wire are adapted to deflect inwardly when urged in an inward direction by an external force.

9. A guidewire system, comprising:
a first wire having a first end, a second end, and an outer surface;
a second wire having a body member and a plurality of struts extending beyond a second end of the body member;
each strut including a first portion fixed to the body member of the second wire and a generally enlarged portion;

the outer surface of the first wire defining a plurality of apertures proximate the first end thereof; and

each aperture being adapted to accept at least a portion of a strut.

10. The guidewire system of claim 9, wherein each aperture defined by the outer surface of the first wire is adapted to accept the generally enlarged portion of a strut of the second wire.

11. The guidewire system of claim 9, wherein the first wire further includes a tapered portion proximate the first end thereof.

12. The guidewire system of claim 9, wherein the first wire further includes a tapered portion proximate the first end thereof and the struts of the second wire are adapted to deflect outwardly when the struts of the second wire are urged over the tapered portion of the first wire.

13. The guidewire system of claim 9, wherein a body member of the first wire defines a plurality of cavities.

14. The guidewire system of claim 9, wherein a body member of the first wire defines a plurality of cavities, and each cavity is in fluid communication with an aperture.

15. The guidewire system of claim 9, wherein a body member of the first wire defines a plurality of channels.

16. The guidewire system of claim 9, wherein a body member of the first wire defines a plurality of channels, each channel being adapted to accept at least a portion of a strut.

17. The guidewire system of claim 13, wherein a body member of the first wire defines a plurality of channels, and each channel is in fluid communication with at least one cavity.

18. A guidewire system, comprising:
a first wire including a first body member having a first end;
a second wire including a second body member having a second end;
a first tubular member fixed to the body member of the first wire proximate the first end thereof;

the first tubular member defining a lumen and structure defining a portion of the lumen having a reduced outer diameter,

a second tubular member fixed to the second wire proximate the second end thereof;

the second tubular member including a plurality of fingers;

the fingers of the second tubular member being flared outward; and

wherein the lumen of the first tubular member is adapted to accept insertion of the second tubular member, and the fingers of the second tubular member are adapted to seat against the structure defining the reduced outer diameter portion of the lumen to selectively limit axial movement of the second wire relative to the first wire.

19. The guidewire system of claim 18, wherein the first tubular member includes a wall, and the structure defining the reduced inner diameter portion of the lumen is a crimped portion in the wall of the first tubular member.

20. The guidewire system of claim 18, wherein the structure defining the reduced inner diameter portion of the lumen is a second tubular member disposed within the first tubular member.

21. A guidewire system, comprising:

a first wire including a body member comprising a wall defining a lumen, and an annulus disposed within the lumen proximate a first end of the body member;

the annulus of the first wire defining an aperture and a first surface;

a second wire including a second body member having a second end, and a coil disposed about the body member of the second wire proximate the second end of the second wire; and

wherein the aperture of annulus of the first wire is adapted to accept insertion of the second end of the second wire, and the coil of the second wire is adapted to seat

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against the first surface of the annulus to limit axial movement of the second wire relative to the first wire.

22. The guidewire system of claim 21, wherein the annulus is defined by at least a portion of a second tubular member disposed within the lumen.

23. The guidewire system of claim 22, wherein the second tubular member is disposed entirely within the lumen.

24. The guidewire system of claim 22, wherein only a portion of the second tubular member is disposed within the lumen.

25. A guidewire system, comprising:
a first wire including a body member comprising a wall defining a lumen, and a female threaded member disposed within the lumen proximate a first end of the body member;

the female threaded member of the first wire defining an aperture and a first surface;

a second wire including a second body member having a second end, and an engagement structure adapted to threadingly engage the female thread of the second wire disposed about the body member of the second wire proximate the second end of the second wire.

26. The guidewire system of claim 25, wherein the engagement structure is a male thread disposed about the body member of the second wire proximate the second end thereof, wherein a portion of the male thread of the first wire is adapted to deform when the male thread threadingly engages the female thread of the second wire.

27. The guidewire system of claim 25, wherein the engagement structure is a coil disposed about the body member of the second wire proximate the second end thereof.

28. A guidewire system, comprising:
a first wire having a first end;
a second wire having a second end; and
means for coupling the first end of the first wire to the second end of the second wire.

29. A guidewire, comprising:
an elongated member;
a coil member; and
means for connecting the coil member to the elongated member.

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